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	CENTRAL INTELLIGENCE AGENCY
	Washington, D.C. 20505
	15 April 1976
MEMORANDU	M FOR: The Director of Central Intelligence
FROM	: David H. Blee Acting Deputy Director for Operations
SUBJECT	: MILITARY THOUGHT (USSR): A Useful Book on Setting Up Communications in a Front
Series nov	The enclosed Intelligence Information Special Report is part of a w in preparation based on the SECRET USSR Ministry of Defense on Collection of Articles of the Journal 'Military Thought". This is a review of a book on setting up communications in a front movement forward for commitment to an engagment in the initial
during a meriod of several ir inadequate impact of	a war. The reviewer finds the book useful, but points out nadequacies such as a lack of quantitative indices, generalized or information and calculations, and failure to consider the full the initial nuclear strike on radio communications. This article in Issue No. 3 (76) for 1965.

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The state of the s	Intelligence Information Spe	ecial Report Page 3 of 9 Pages	
		50X1-HUM	
COUNTRY	USSR		
DATE OF INFO.	Late 1965	DATE 15 April 1976	
	SUBJECT		
SOURCE	Documentary Summary: The following report is a translation from Russia appeared in Issue No. 3 (76) for 1965 of the SECRET US Defense publication Collection of Articles of the Jour Thought". The author of this article is General-Mayor Troops I. Kurnosov. This article is a review of a boc Communications Troops M. K. Dodenko concerning the set communications during a movement of front troops for tengagement in the initial period of a war. The review useful, but points out several inadequacies such as a indices, generalized or inadequate information and cal failure to consider the full impact of the initial nuccommunications.	SSR Ministry of mal 'Military of Communications of Communications of the commitment to an wer finds the book lack of quantitative culations, and the strike on radio	
		End of Summary	50V1_HIIN
	Comment: General-Mayor of Communications Troops I. Kurnoso candidate of military sciences. He was deceased as of wrote an article which appeared in Issue No. 2 (63) fo New Communications System version of Military Thought was published three times distributed down to the level of division commander. publication at the end of 1970.	E 4 May 1966. He also or 1961, "Creating a . The SECRET approals year was	50X1-HUM 50X1-HUM 50X1-HUM
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A Useful Book

General-Mayor of Communications Troops I. Kurnosov

The complexity of directing the movement forward of large masses of troops over great distances has immeasurably heightened the role of communications as the basic means of control. For this reason, the study and working out of the questions of setting up communications under these conditions, as well as measures directed toward ensuring the centralized use of various communications systems, are very important and urgent tasks of operational art.

In this regard, interest is aroused by <u>General-Mayor</u> of Communications Troops M. K. Dodenko's book, <u>The Setting Up of Communications in a Front During Movement from the Depth of the Theater of Military Operations for Commitment to an Engagement and Operations in the Initial Period of a War,* published by the Military Academy of the General Staff of the Armed Forces of the USSR.</u>

There is no doubt as to the timeliness of the work, and from this point of view the military reader can only applaud the Academy's efforts to state and resolve so many critical and complex questions, including the setting up of control and communications. The work is also valuable in that all the calculations were made proceeding from the forces and means of communications which the troops really possess, that is, such conditions were taken in which it will actually be necessary to decide questions of setting up communications in the first operations of the initial period of a war.

*General-Mayor of Communications Troops M. K. Dodenko. The Setting Up of Communications in a Front During Movement from the Depth of the Theater of Military Operations for Commitment to an Engagement and Operations in the Sox1-Hum Initial Period of a War. A publication of the Military Academy of the General Staff, 1964, 104 Pages, 8 diagrams.

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mo	Stated in the book are the demands rinciples for setting up a <u>front</u> community comment forward, and recommendations communications in this complex form of the setting of	cations system in the process of setting up
cor	Examining the operational conditions ich influence control and the setting we author emphasizes that the use of variatrol will be very diverse, the number arply limited, and the tasks complex. The emphasizes action against the various elected with the goal of disrupting its works.	up of communications (pp. 8-16), rious technical means for troop of communications means will be Moreover, the degree to which the ements of the communications
the hou	Here are cited a brief description of vement of front troops from the depth, at troops (the speed of movement of a cour, and the extent of a day's move 2 possible variants of the setting up at 5. 6-8), and a brief description of independent of the setting up at	the expected pace of relocation lumn is 20 to 30 kilometers per 50 to 300 kilometers and greater and relocation of control posts
coc	Especially emphasized is the complexe in motion, when troops are moving for ordinating matters of cooperation with untries and with one's own troops operation	ward by various methods, and whe the armies of the Warsaw Pact
and mor	In our opinion, the conditions of a bined-arms large units, but of the air units and facilities of the rear shour in order, as the author subsequently munications system to support the from	army, air defense large units, ld have been shown. This is eve plans a unified. centralized
the emp var ine the	Not denying the validity of the logicous factors affecting the communication demands made on it, quantitative indicated loyed, which would allow a stricter assignation of the other for setting up a comvitability of the disruption of the convincial nuclear strikes should have be plexity of restoring it within limited are not reduced should have been shown	ons system, and in substantiating ces should have been more widely essment of the correctness of ormunications system. The munications system as a result een especially emphasized, and to periods of time while demands of the control of the contro
com	In the book a description is given or munications systems of some of the countries.	f the existing state`

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carried although up a conquestion direct	o Operations upon who out (pp. 17-24). Sun it is not sufficient munications system. It is of the use of radius alternate communication of various	ach generalized of the substantial information is communication actions channels	material has a certe the capabilities especially scanty means and the asset at those points	tain value, es for setting concerning esignment of which coincid
which a capabil of the field me committee communic communic	e substantiation of the spreceded by the enfront can have in the ties for the deployment of the communications system and to an engagement attions system should attion installations deneral Headquarters.	umeration of core initial period ent and support . In doing so, s must not be earnd that during a be set up by me, and communicate	munications force of a war, and of of the work of va the author conclu- pended before the movement forward ans of the wide u	s and means its rious element des that the front is a se of state
carried system 1	author suggests a sout in peacetime in o the greatest degrenot arouse any object	order to prepare e for the contro	the state commun	ications
in 20 to limits s then act been set	ever, in our opinion. For example, prac 22 hours a radio-re hould be increased by ually only those linup beforehand or be can be used.	tice does not be lay line extendi y at least four es of the Genera	ear out the capabing 1200 kilometer times. That bein 1 Headquarters wh	lity to set u s. These time g the case, ich will have
the very were no	concerns a communicate fully resolved. For important element of well-grounded calculational-technical sets	r example, casua f auxiliary comm ations whatsoeve	l mention was made unications center:	e regarding s. but there
the adva actions spot in	addition, the entire name of troops, not tall could occur in the count in the proposed system con of the system during	king into accoun ourse of the mov is the lack of c	t the possibility ement. The most valculations concer	that combat rulnerable rning the 50X1

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strikes. Although in itself this period is of short duration, it is characterized by particular complexity and tension. In addition to physical losses in personnel and in the technical means of control, elements of confusion and even panic are unavoidable. Such facts as the possible withdrawal of some of the personnel from various installations of the Ministry of Communications, the massive breakdown of external structures, damage to main and connecting cable lines by electromagnetic radiation resulting from nuclear bursts, disturbance of atmospheric, tropospheric, and stratospheric conditions, which impede the work of radio communications, cannot be ignored. And all of this takes place in that period when information concerning the events in progress is especially needed. There is no need to argue that excessive nervousness might occur in the work of the staffs.

In the book much space is allotted to matters of setting up communications on the territory of a military district by various means in time of peace and war, as well as the procedure for using them when front troops are moving forward and being committed to an engagement. The author's practical recommendations concern the determination of the places of deployment of various communications centers, the direction and capacity of various communications lines, and the allocation of the efforts of troops of the General Headquarters and the front, and government communications troops, and the procedure for joint work with organs of the Ministry of Communications.

The author cites possible variants in the calculation of the necessary number of communications channels during the movement forward and commitment of a front to battle. It is apparent from Table 1 (p. 46) that in order to ensure the control of front troops during a movement forward the following are needed: 69 communications channels from the command post, 17 from the forward command post, and 13 from the rear control post. Accordingly, on the links from the front command post to the General Staff and from the front command post to the subordinate formations there should be two telephone channels each, including one for government communications. The author estimates that during their commitment to an engagement the minimum number of communications channels needed to control the troops of a front consists of: 127 from the command post, 38 from the forward command post, and 44 from the rear control post (p. 52).

Speaking of the inaccuracies of the estimate, it should be noted that the author makes no distinction between the qualitative aspect of the channels formed by different means. In addition, on the majority of links one channel each is assigned, that is, that minimum for which no special

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calcula	ations are required.
radio-: means commit would n with th for con should employn to came inciden no spec	endering what is due to the positive qualities of wire and relay means, the author considers radio communications to be the map of control during a movement forward of front troops and their ment to an engagement, and shows all of its merits, without which is not be possible to rely on the continuity of control. One must agrae assertion that the absolute prohibition of the use of radio means atrol of advancing troops is impossible. Therefore the main effort be directed not toward searching for ways to do without the ment of radio communications but toward searching for effective ways suflage their operation. Questions of radio camouflage, stally, have not been dealt with sufficiently in the work; there are diffic recommendations and necessary calculations concerning its entation.
pp. 70 esseng courier	the section about the employment of messenger means of communications (1-72) is set forth without considering the reorganization of the er means of communications and the military postal service into the repostal communications service, and for this reason, it is not larly valuable.
ommuniverest tate or roport elativanger. igh-al hat the curre	amining questions of increasing the survivability of a cations system (pp. 74-83), the author, in our opinion, imated the degree of effect of high-altitude nuclear bursts on the f shortwave radio communications. At the <u>front</u> level, the relative ion of the shortwave radio communications using reflected waves is ely small, and the destruction of the ionosphere is not so grave a We are compelled to make these remarks not because the effect of titude nuclear bursts in general merits no consideration, but so ese bursts will not be overestimated, and that many efforts will not cessarily expended. Consideration must be given to questions of the nce of electromagnetic radiation capable of creating currents in the systems sufficient for the combustion (in the fullest sense of the f these lines at great distances from the ground zero of the burst.
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offic quest durin At th	ers of front an cions concerning as a movement for a same time we completely res	s a whole, the book being reviewed is helpful to generals and arms of front and arms formations during the study and working ons concerning troop control and the setting up of communicate a movement forward and commitment to an engagement of front same time we think that the problems it touches upon are far completely resolved and that this subject calls for additionate.			working out of munications front troops.
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